

## Hit List

First Hit   Clear   Generate Collection   Print   Fwd Refs   Bkwd Refs  
Generate OACS

### Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 6590391 B1   Relevance Rank: 59

L1: Entry 3 of 4

File: USPT

Jul 8, 2003

US-PAT-NO: 6590391

DOCUMENT-IDENTIFIER: US 6590391 B1

TITLE: MRI DIAGNOSIS APPARATUS WITH AN INTERGRATED CABINET THAT IS MECHANICALLY AND ELECTRICALLY CONNECTED TO THE ELECTRICALLY CONDUCTIVE SHIELD OF THE SHIELD ROOM IN WHICH THE MR MEASUREMENT SYSTEM IS ARRANGED

DATE-ISSUED: July 8, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shudo; Tsuyoshi	Hitachinaka			JP
Tsuda; Munetaka	Mito			JP

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hitachi Medical Corporation	Tokyo			JP	03

APPL-NO: 09/391072   [PALM]

DATE FILED: September 16, 1999

#### FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	10-263326	September 17, 1998

INT-CL-ISSUED: [07] G01V 3/00

#### INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>G01 R 33/38</u>	20060101
CIPS <u>G01 R 33/385</u>	20060101

US-CL-ISSUED: 324/318; 324/322, 324/320

US-CL-CURRENT: 324/318; 324/320, 324/322

FIELD-OF-CLASSIFICATION-SEARCH: 324/309, 324/320, 324/307, 324/318, 324/314, 324/322

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4651099</u>	March 1987	Vinegar et al.	324/320
<u>4667159</u>	May 1987	Hodsoll, Jr. et al.	324/309
<u>4992736</u>	February 1991	Stormont et al.	324/309
<u>5933450</u>	August 1999	Lakshminarayanan et al.	382/260
<u>5933540</u>	August 1999	Lakshminarayanan et al.	382/260
<u>6198285</u>	March 2001	Kormos et al.	324/318
<u>6229311</u>	May 2001	Abenaim	324/322

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0210525	July 1986	DE	
0210525	July 1986	EP	

ART-UNIT: 2862

PRIMARY-EXAMINER: Lefkowitz; Edward

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Antonelli, Terry, Stout, & Kraus, LLP

ABSTRACT:

A line filter unit and a gradient magnetic field power supply placed in a shield room are contained in one cabinet to integrate them into one unit, and the integrated cabinet unit is attached on a wall of the shield room, and the cabinet unit is electrically integrated with a radio frequency shield conductor in the radio frequency shield room. Further, a signal amplifier and an electric power amplifier may be contained in the integrated cabinet unit.

41 Claims, 7 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ReMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 2. Document ID: US 6459265 B1 Relevance Rank: 53

L1: Entry 4 of 4

File: USPT

Oct 1, 2002

US-PAT-NO: 6459265

DOCUMENT-IDENTIFIER: US 6459265 B1

TITLE: Method and apparatus for reducing input impedance of a preamplifier

DATE-ISSUED: October 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lou; Xiaoming	Waukesha	WI		
Stormont; Robert Steven	Hartland	WI		
Boskamp; Eddy Benjamin	Menomonee Falls	WI		
Becerra; Ricardo	Waukesha	WI		
Prendergast, Sr.; John Francis	Franklin	WI		
Haig; Paul Douglas	Milwaukee	WI		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
General Electric Company	Schenectady	NY			02

APPL-NO: 09/199508 [PALM]

DATE FILED: November 25, 1998

INT-CL-ISSUED: [07] G01V 3/00

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G05 F 1/70	20060101

US-CL-ISSUED: 324/322; 324/318

US-CL-CURRENT: 324/322; 324/318

FIELD-OF-CLASSIFICATION-SEARCH: 307/107, 324/306, 324/307, 324/322, 73/204, 330/282, 330/277, 341/139, 367/67, 323/208

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4255968</u>	March 1981	Harpster	307/107
<u>4882541</u>	November 1989	Haragashira	324/322
<u>4890062</u>	December 1989	Haragashira	324/322
<u>5570022</u>	October 1996	Ehnholm et al.	324/319
<u>5909120</u>	June 1999	Mori et al.	324/322
<u>6025720</u>	February 2000	Lenz et al.	324/322
<u>6369550</u>	April 2002	Lou et al.	323/208

ART-UNIT: 2862

PRIMARY-EXAMINER: Lefkowitz; Edward

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Fletcher, Yoder &amp; Van Someren

## ABSTRACT:

A feedback circuit is provided for reducing the input impedance of a preamplifier circuit, such as for use with a sensing coil in an imaging system. The feedback circuit permits adjustment of the input impedance by balancing inductive and capacitive components of a feedback control circuit. The imaginary component of the input impedance may be adjusted independently of the real component, to provide a substantially zero input impedance, while allowing adjustment of the stability of the system. The circuitry may function in conjunction with a reactance matching circuit to reduce cross-talk in multiple sensing coil arrangements.

15 Claims, 7 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Drawing
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

3. Document ID: US 6946842 B2      Relevance Rank: 52

L1: Entry 2 of 4

File: USPT

Sep 20, 2005

US-PAT-NO: 6946842

DOCUMENT-IDENTIFIER: US 6946842 B2

TITLE: Analytical instrument and processes

DATE-ISSUED: September 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gozansky; Elliott Kirk	Ann Arbor	MI	48105	

APPL-NO: 10/856446    [PALM]

DATE FILED: May 28, 2004

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application claims priority to application Ser. No. 60/473,792, filed on May 28, 2003.

INT-CL-ISSUED: [07] G01V 3/00, A61B 5/055

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPN	G01 N 1/02	20060101
CIPS	G01 R 33/30	20060101

US-CL-ISSUED: 324/318; 600/410  
US-CL-CURRENT: 324/318; 600/410

FIELD-OF-CLASSIFICATION-SEARCH: 73/23.2, 73/23.36, 73/23.41, 324/300-322, 128/845, 128/846, 607/96, 436/518, 436/37, 601/16, 49/507, 604/262, 454/187, 414/217.1, 134/6, 600/410

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>2702034</u>	February 1955	Walter	604/262
<u>4676144</u>	June 1987	Smith, III	454/187
<u>4817644</u>	April 1989	Holmes et al.	134/6
<u>5192910</u>	March 1993	Hepp et al.	324/315
<u>5451131</u>	September 1995	Hecht et al.	414/217.1
<u>6410331</u>	June 2002	Schultz et al.	436/37
<u>6418932</u>	July 2002	Paschal et al.	128/845
<u>6553722</u>	April 2003	Porret et al.	49/507
<u>6817143</u>	November 2004	Porret et al.	49/507
<u>2001/0029955</u>	October 2001	Paschal et al.	128/846
<u>2002/0133100</u>	September 2002	Paschal et al.	601/16
<u>2003/0015019</u>	January 2003	O'Brien	73/23.2
<u>2003/0027359</u>	February 2003	Hudak et al.	436/518
<u>2003/0126799</u>	July 2003	Porret et al.	49/507
<u>2004/0035183</u>	February 2004	O'Brien et al.	73/23.36
<u>2004/0215294</u>	October 2004	Littrup et al.	607/96
<u>2004/0251905</u>	December 2004	Gozansky	324/321

ART-UNIT: 2859

PRIMARY-EXAMINER: Shrivastav; Brij

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Mayer, Brown, Rowe & Maw LLP

ABSTRACT:

An analytical instrument for analyzing biohazardous specimens is provided. The instrument provides means for exposing only the sample chamber to the containment area. A process for analyzing a biohazardous sample is also provided.

9 Claims, 10 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw D.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

## 4. Document ID: US 7084629 B2 Relevance Rank: 52

L1: Entry 1 of 4

File: USPT

Aug 1, 2006

US-PAT-NO: 7084629

DOCUMENT-IDENTIFIER: US 7084629 B2

TITLE: Parallel imaging compatible birdcage resonator

DATE-ISSUED: August 1, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050099179 A1

May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Monski, Jr.; William J.	Sewickley	PA		US
Alradady; Fahad	Glenshaw	PA		US
Misic; George J.	Allison Park	PA		US

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Medrad, Inc.	Indianola	PA		US	02

APPL-NO: 10/723428 [PALM]

DATE FILED: November 27, 2003

RELATED-US-APPL-DATA:

us-provisional-application US 60429855 00 20021127

INT-CL-ISSUED:

TYPE	IPC	DATE	IPC-OLD
IPCP	G01V3/00	20060101	G01V003/00

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G01 V 3/00	20060101

US-CL-ISSUED: 324/318; 324/322

US-CL-CURRENT: 324/318; 324/322

FIELD-OF-CLASSIFICATION-SEARCH: 324/318-322, 324/316, 324/314, 324/312, 600/410, 600/422

See application file for complete search history.

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4634980</u>	January 1987	Misic et al.	
<u>4684895</u>	August 1987	Misic et al.	
<u>4692705</u>	September 1987	Hayes	
<u>4731584</u>	March 1988	Misic et al.	
<u>4740751</u>	April 1988	Misic et al.	
<u>4764726</u>	August 1988	Misic et al.	
<u>4793356</u>	December 1988	Misic et al.	
<u>4797617</u>	January 1989	Misic et al.	
<u>4825162</u>	April 1989	Roemer et al.	
<u>4839594</u>	June 1989	Misic et al.	
<u>4841248</u>	June 1989	Mehdizadeh	
<u>4879516</u>	November 1989	Mehdizadeh et al.	
<u>4881034</u>	November 1989	Kaufman et al.	
<u>4920318</u>	April 1990	Misic et al.	
<u>4975644</u>	December 1990	Fox	
<u>5136244</u>	August 1992	Jones et al.	
<u>5196796</u>	March 1993	Misic et al.	
<u>5209233</u>	May 1993	Holland et al.	
<u>5256971</u>	October 1993	Boskamp	
<u>5258717</u>	November 1993	Misic et al.	
<u>5315251</u>	May 1994	Derby	
<u>5517120</u>	May 1996	Misic et al.	
<u>5521506</u>	May 1996	Misic et al.	
<u>5602479</u>	February 1997	Srinivasan et al.	324/318
<u>5610520</u>	March 1997	Misic et al.	
<u>5664568</u>	September 1997	Srinivasan et al.	600/422
<u>5998999</u>	December 1999	Richard et al.	
<u>6040697</u>	March 2000	Misic	
<u>6051974</u>	April 2000	Reisker et al.	
<u>6060883</u>	May 2000	Knuttel	
<u>6100691</u>	August 2000	Yeung	
<u>6177797</u>	January 2001	Srinivasan	
<u>6223065</u>	April 2001	Misic et al.	
<u>6344745</u>	February 2002	Reisker et al.	324/318
<u>6356081</u>	March 2002	Misic	
<u>6396273</u>	May 2002	Misic	
<u>6426624</u>	July 2002	Snelten	324/318
<u>6549799</u>	April 2003	Bock et al.	600/422
<u>6714013</u>	March 2004	Misic	324/318
<u>6745064</u>	June 2004	Fuderer et al.	600/410
<u>6831460</u>	December 2004	Reisker et al.	324/318
<u>6850064</u>	February 2005	Srinivasan	324/318
<u>2002/0156362</u>	October 2002	Bock et al.	600/410
<u>2003/0071622</u>	April 2003	Reisker et al.	324/318

2005/0099179

May 2005

Monski et al.

324/318

## OTHER PUBLICATIONS

Lin, et al., Magnetic Resonance in Medicine, "A Novel Multi-Segment Surface Coil for Neuro-Functional Magnetic Resonance Imaging," vol. 39, pp. 164-168 (1998).

cited by other

Meyer et al., Journal of Magnetic Resonance, Series B, "A 3.times.3 Mesh Two-Dimensional Ladder Network Resonator of MRI of the Human Head," vol. 107, p. 19-24 (1995). cited by other

Roemer et al., Magnetic Resonance in Medicine, "The NMR Phased Array," vol. 16, pp. 192-225 (1990). cited by other

Adriany, G. et al., "A Transmit/Receive Quadrature Birdcage Array Coil for 4 Tesla," Proceedings of the ISMRM, 5th Scientific Meeting and Exh., v. 1, p. 177 (Apr. 12-18, 1997). cited by other

Adriany G. et al., "A Transmit/Receive Quadrature Birdcage Array for 4 Tesla," Presentation to the ISMRM, 5th Scientific Meeting and Exhibition., Vancouver (Apr. 12-18, 1997). cited by other

Brochure: "High Resolution Head Coil for GE MRI Systems," MRI Devices Corporation, Rev. 2, Jan. 2002. cited by other

Brochure: "Neurovascular High Resolution Head Coil 1.5 T & 3.0T," MRI Devices Corporation, Undated. cited by other

ART-UNIT: 2859

PRIMARY-EXAMINER: Gutierrez; Diego

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Stevenson; James R.

## ABSTRACT:

A birdcage coil for use with a magnetic resonance (MR) system comprises a first ring at one thereof, a second ring at the other end thereof, and a plurality of rods electrically interconnecting the first and second rings. The first ring is electrically conductive and has a first diameter. The second ring is electrically conductive and has a second diameter. The rods and first and second rings are configured to form about the birdcage coil a plurality of partially-overlapped primary resonant substructures. Each primary resonant substructure includes two of the rods and the corresponding sections of the first and second rings interconnecting them.

75 Claims, 25 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
FETZNER	334
FETZNERS	0



CABINET	172034
CABINETS	38031
(FETZNER AND CABINET) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	4
((FETZNER) AND CABINET ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	4

**Display Format:** **Change Format**[Previous Page](#)[Next Page](#)[Go to Doc#](#)